

SOLID STATE THERMAL ENGINE

ABSTRACT OF THE DISCLOSURE

The present invention is a solid state thermal engine and method for creating a solid state thermal engine that provides an effective thermal tunneling gap between a hot and cold electrode. The effective gap produced in the present invention is on the order of one nanometer. A via is etched through a first side of first and second substrates, and metal electrodes are attached to a second side of the first and second substrates. The second sides are opposite the first sides. The metal electrodes are mated by bonding the second side of the first substrate to the second side of the second substrate.

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